

**To:** Way, Steven[way.steven@epa.gov]  
**From:** Christoph Goss  
**Sent:** Mon 10/19/2015 9:40:24 PM  
**Subject:** RE: Gold King Mine - Monday - Tuesday conference Call - concrete floor beam / floor finish

Here you go. It is the full plan set including the flow control.

<https://www.yousendit.com/download/bXBZa0ZaTIFsUi81SE1UQw>

Christoph

-----Original Message-----

From: Way, Steven [mailto:way.steven@epa.gov]  
Sent: Monday, October 19, 2015 3:26 PM  
To: Christoph Goss <christoph.goss@deereault.com>  
Subject: RE: Gold King Mine - Monday - Tuesday conference Call - concrete floor beam / floor finish

Christoph,

Regarding the flow control structure plans last week - I do not find an email with the Flow Control plans. There are several with adit support structure changes and elevation analysis, but I do not see one with the flow control plans. If you don't mind, send it again if I missed it.

Thank you,  
Steve

Steven Way  
Federal On-Scene Coordinator  
Emergency Response Unit  
US EPA - Region 8  
1595 Wynkoop Street  
Denver, CO 80202

Office: 303-312-6723

-----Original Message-----

From: Christoph Goss [mailto:christoph.goss@deereault.com]  
Sent: Monday, October 19, 2015 2:38 PM  
To: Nicholas MacGregor; Way, Steven; Matt Francis; Karl Fritz  
Cc: Griswold, Hays; Chris Hassel; Elliott Petri; Dave Goertz; Jacob Greenman; Bob Heeter  
Subject: RE: Gold King Mine - Monday - Tuesday conference Call - concrete floor beam / floor finish

Hi Nick

Thanks for the sketch. Karl will design rebar reinforcement to accompany it. The rebar will have to be epoxy coated.

The concrete mix will need the same kind of Type II-V cement as the shotcrete.

The Boise team is just finishing up the pricing on the flow control structure and should have that together with the final plans tomorrow. The plans I sent our last week are very close to final. Let me know if you have any comments on them.

Christoph

-----Original Message-----

From: Nicholas MacGregor [mailto:nmacgregor@harwest.com]

Sent: Monday, October 19, 2015 11:33 AM

To: Christoph Goss <christoph.goss@deereault.com>; Way, Steven <way.steven@epa.gov>; Matt

Francis <m.francis@erllc.com>; Karl Fritz <karl.fritz@deereault.com>

Cc: Griswold, Hays <Griswold.Hays@epa.gov>; Chris Hassel <CHassel@harwest.com>; Elliott Petri

<Elliott.Petri@WestonSolutions.com>; Dave Goertz <Dave.Goertz@WestonSolutions.com>; Jacob

Greenman <jgreenman@harwest.com>; Bob Heeter <bheeter@harwest.com>

Subject: RE: Gold King Mine - Monday - Tuesday conference Call - concrete floor beam / floor finish

Christoph,

Sorry you weren't able to join us this morning on the conference call. However we did come to a resolution as to how we would like to proceed. We decided that we'd like to pour a concrete grade beam which would run along both sides and be only formed on the inside and poured against the rib. We will keep the installation of the anchors in the rib to take the lateral loading on the sets. We would like to keep the grade beam no more than 10" thick ideally. You'll have to excuse my drafting skills but I have attached a sketch of how I envision the reinforcing could look. We would be looking to be ready to pour this early next week and I will need to get this reinforcing ordered ASAP, especially if we will want it to be epoxy coated so any help in finalizing this would be greatly appreciated.

Also I will be receiving a mix design and certification from a vendor who has the capability to batch the concrete onsite and as soon as I receive that I will forward it along for review. Thank you for all your help in resolving this and should you have any questions please don't hesitate to contact me on my cell at (720) 244-5810.

Lastly, as I recall the last conference call we had discussed your team getting final flow control drawings to us along with some pricing and lead time for getting the flow control structure to site. Do you have any update on this issue?

Sincerely,

Nicholas MacGregor, AC

HARRISON WESTERN CONSTRUCTION CORPORATION

1208 Quail Street

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T (303) 234.0273 x219

F (303) 237-9868 | [www.harrisonwestern.com](http://www.harrisonwestern.com)

-----Original Message-----

From: Christoph Goss [mailto:christoph.goss@deereault.com]

Sent: Monday, October 19, 2015 7:57 AM

To: Way, Steven; Matt Francis; Karl Fritz

Cc: Griswold, Hays; Chris Hassel; Nicholas MacGregor; Elliott Petri; Dave Goertz; Christoph Goss

Subject: RE: Gold King Mine - Monday - Tuesday conference Call - concrete floor beam / floor finish

Hi Everyone

I have another meeting this morning and 9 am and cannot attend. Form the engineering side, all three foundation options discussed so far (anchored sill beam, footers with tie backs, reinforced slab) are

acceptable. All of them will allow the steel sets to function, allow placement of cellular concrete, and allow the installation of the flow control structure. It comes down to timing and constructability.

I will be available this afternoon and most of the rest of this week if you want to discuss anything.

Christoph

-----Original Message-----

From: Way, Steven [mailto:way.steven@epa.gov]

Sent: Sunday, October 18, 2015 10:02 PM

To: Matt Francis <m.francis@erllc.com>

Cc: Griswold, Hays <Griswold.Hays@epa.gov>; Chris Hassel <CHassel@harwest.com>;

NMacgregor@Harwest.com; Christoph Goss <christoph.goss@deereault.com>; Elliott Petri

<Elliott.Petri@WestonSolutions.com>; Dave Goertz <Dave.Goertz@WestonSolutions.com>

Subject: Re: Gold King Mine - Monday - Tuesday conference Call - concrete floor beam / floor finish

looks like Monday at 0900 it is.

Sent from my iPad

> On Oct 17, 2015, at 6:40 PM, Matt Francis <m.francis@erllc.com> wrote:

>

> I'm available, prefer 0900.

>

>

>

> Sent via the Samsung Galaxy Note(r) 3, an AT&T 4G LTE smartphone

>

>

> ----- Original message -----

> From: "Way, Steven" <way.steven@epa.gov>

> Date: 10/17/2015 5:56 PM (GMT-06:00)

> To: Matt Francis <m.francis@erllc.com>, "Griswold, Hays" <Griswold.Hays@epa.gov>, Chris Hassel <CHassel@harwest.com>, NMacgregor@Harwest.com, Christoph Goss <christoph.goss@deereault.com>

> Cc: "Way, Steven" <way.steven@epa.gov>, Elliott Petri <Elliott.Petri@WestonSolutions.com>, Dave Goertz <Dave.Goertz@WestonSolutions.com>

> Subject: Gold King Mine - Monday - Tuesday conference Call - concrete floor beam / floor finish

>

> It is time to have a discussion and resolve the path forward for the concrete work in the adit. It appears that the excess Shotcrete mix is not going to be suitable for the floor, and it complicates other aspects - such water management. In addition, there are other considerations that have come to light.

>

> Please let us know if you are available Monday morning at 0900 or after 1200. If not Monday, how does Tuesday work ?

>

> Call In number:

>

> Conference Line:

>

> Thank you,

> Steve

>

> Sent from my iPad



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